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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Holtzman et al.
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Assistant Commissioner for Patents
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TRANSMITTAL OF FORMAL DRAWINGS

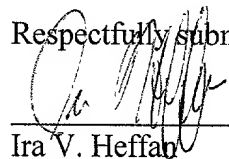
Sir:

The formal drawings for this application - Number of Sheets - Eight (8) are attached.

Date: November 30, 2000
Reg. No. 41,059

Tel. No.: (617) 248-7176
Fax No.: (617) 248-7100

Respectfully submitted,



Ira V. Heffan
Attorney for Applicants
Testa, Hurwitz, & Thibault, LLP
High Street Tower
125 High Street
Boston, Massachusetts 02110

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FIG. 1 is a block diagram of a system architecture for a merchant web server. The system includes a client device 100, a network 104, a merchant web server 130, and information servers 120. The client device 100 is connected to the network 104 via a reader 110. The network 104 is connected to the merchant web server 130 via HTTP. The merchant web server 130 is connected to the information servers 120 via INTERNET - XML/SOAP. The information servers 120 are connected to information databases 122 via INTERNET - XML/SOAP. The merchant web server 130 is also connected to a merchant web database 132.

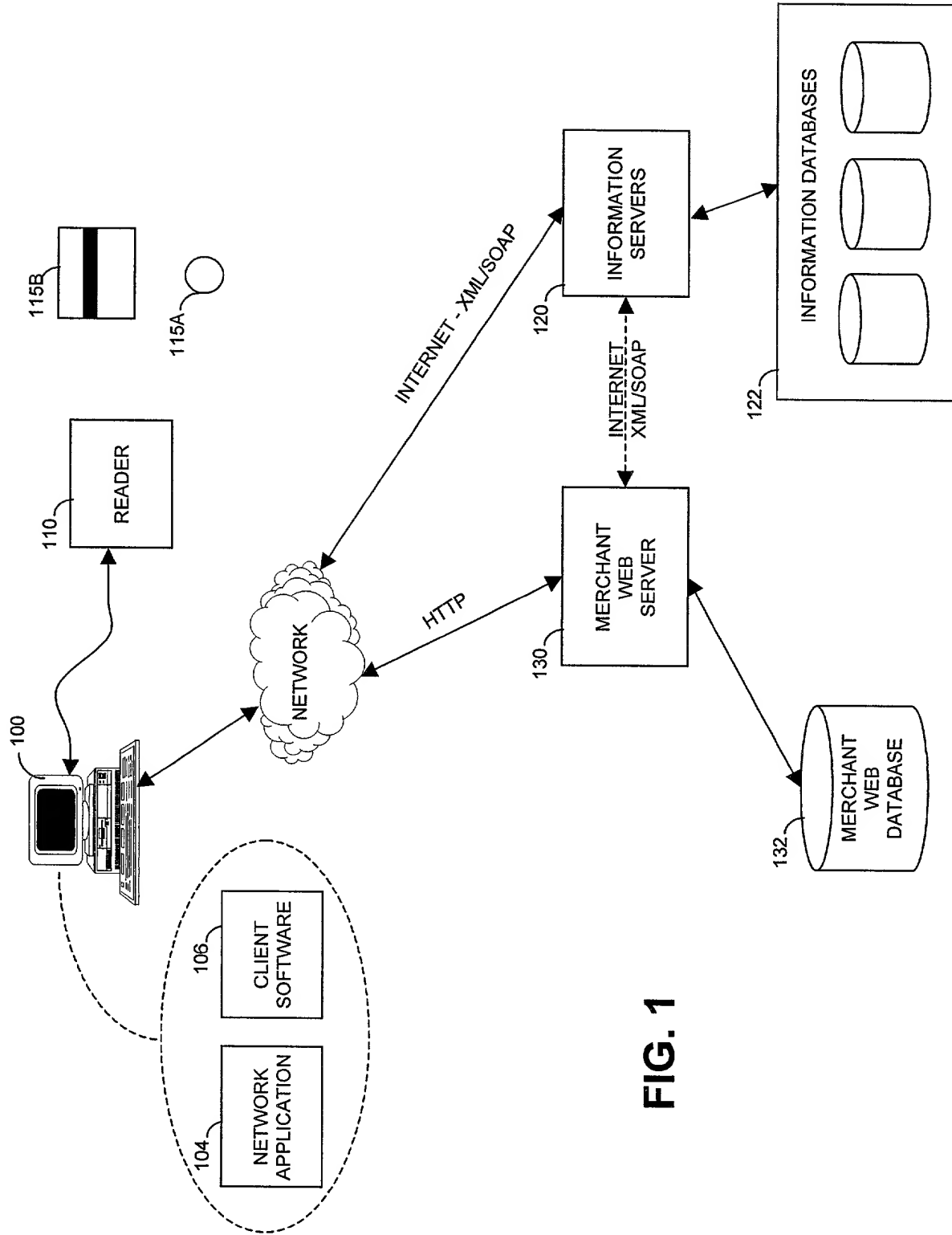


FIG. 1

FIG. 2 is a block diagram of a system for processing a magnetic stripe and a tag. The system includes a reader (210) connected to a personal computer (200). The personal computer (200) is connected to an information server (230), which is connected to a database (232). The personal computer (200) also includes client software (205). The reader (210) is connected to a magnetic stripe (215A) and a tag (215B). The personal computer (200) is connected to two websites (220 and 222). Website A (220) includes fields for NAME, ADDRESS, CITY, STATE, ZIP, PHONE, CREDIT CARD #, and EXP. DATE. Website B (222) includes fields for USERNAME and PASSWORD.

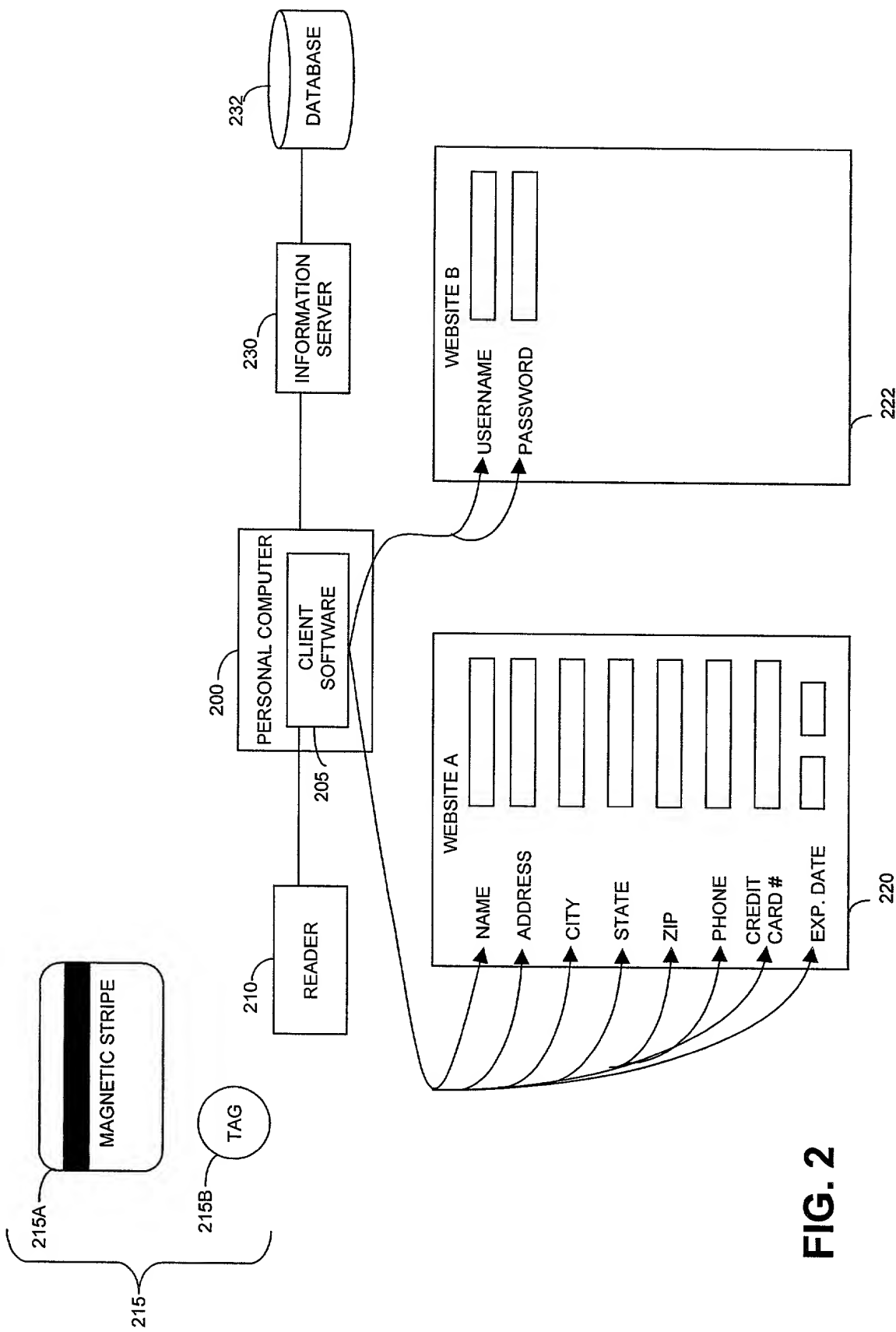


FIG. 2

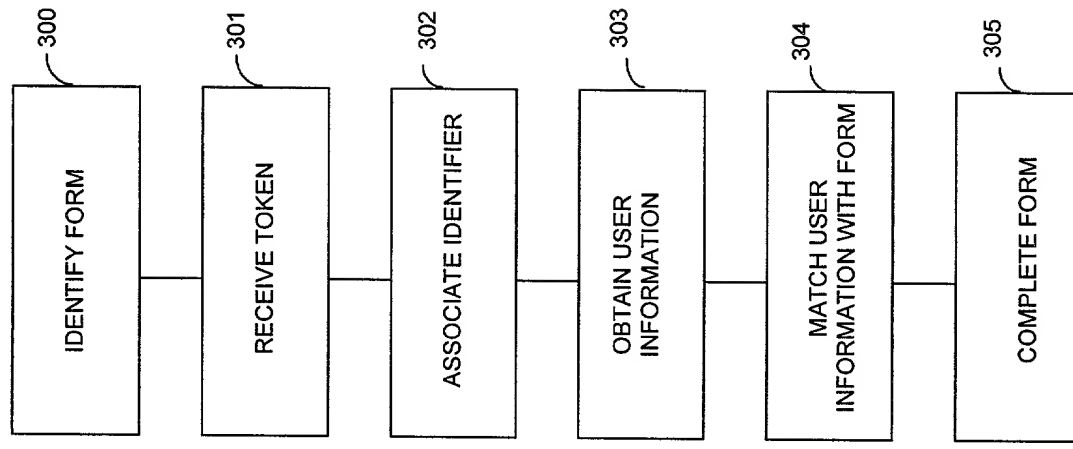


FIG. 3

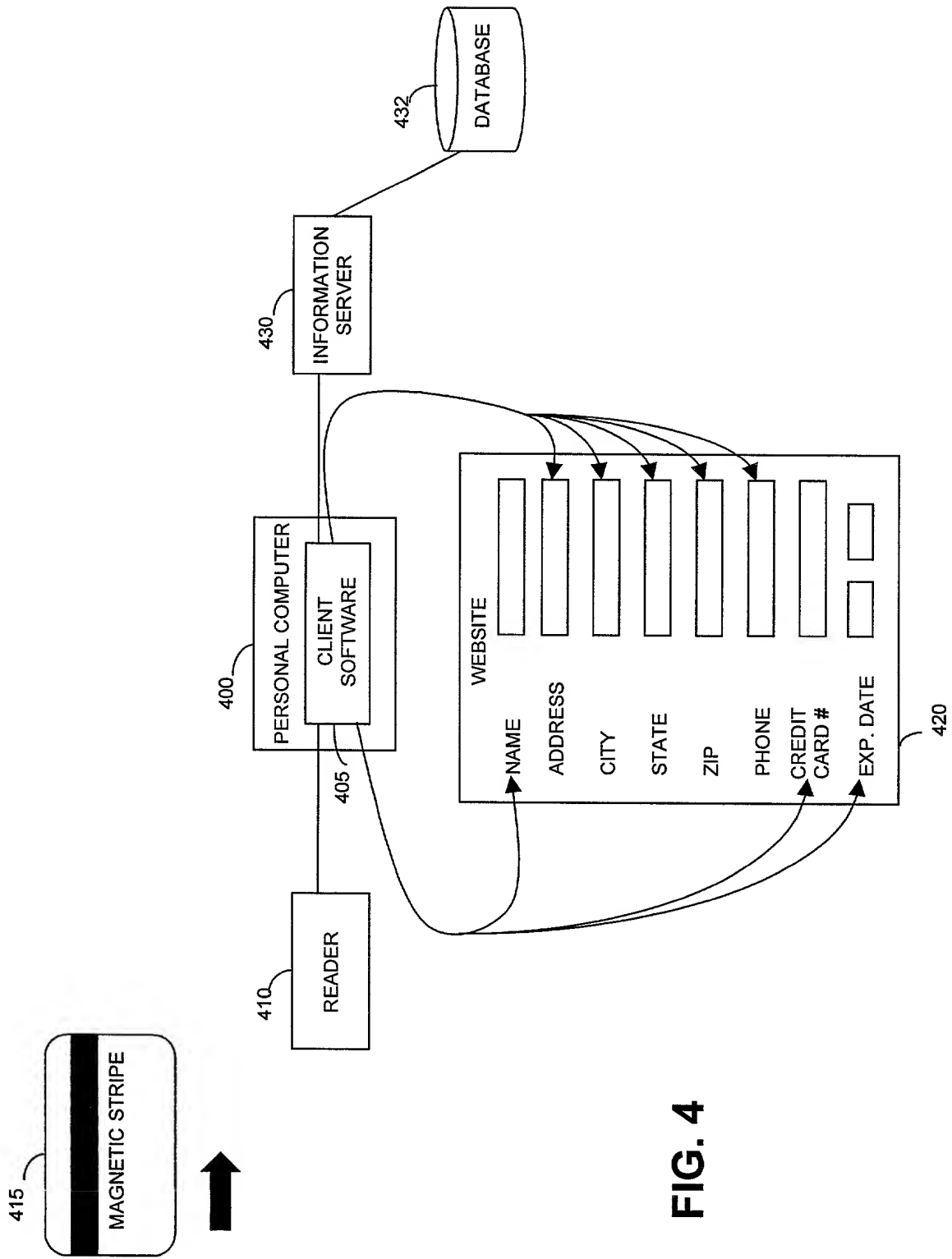


FIG. 4

FIG. 5 is a block diagram of a system architecture. The system includes a central SYSTEM BUS (554) connected to various components: MASS STORAGE (552), CPU (556), SCREEN DISPLAY (575), COMMUNICATIONS (560), POSITION SENSING DEVICE (572), KEYBOARD (570), and a READER (515). The READER (515) is connected to a larger block (554) containing a DATABASE (585), a DISPATCH (582), and an APPLICATION (580). The DISPATCH (582) is connected to the DATABASE (585) and the APPLICATION (580). The APPLICATION (580) is connected to the COMMUNICATIONS (560) block. The COMMUNICATIONS (560) block is connected to a DATA NETWORK (562), which is further connected to two external devices (598 and 599).

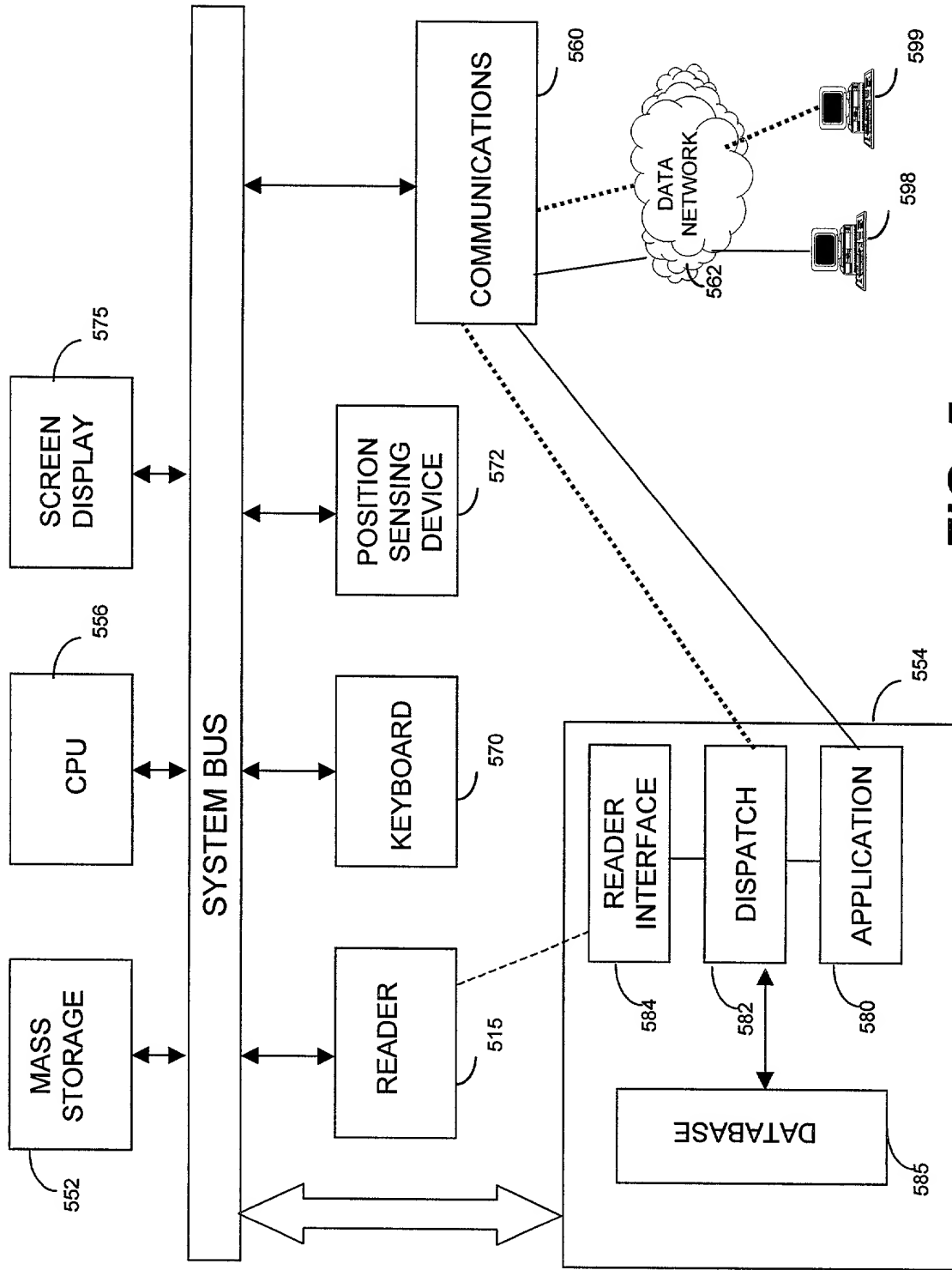


FIG. 5

FIG. 6 is a block diagram of a system architecture for a client software application. The system includes a client software layer (600) with a user interface (605) and a worker pipeline layer (610). The worker pipeline layer contains a cache worker (614), a token worker (616), a profile worker (617), a script worker (618), and an error worker (619). The client software layer also includes a data layer (630) with tag data (632), profile data (634), script data (636), and mapping tables (638). A cache and network service (639) is also present. The client software layer is connected to a device manager layer (620) which includes a browser manager (626) and a reader manager (622). The device manager layer is connected to a reader (624). The client software layer is also connected to a set of browser instances (628) via a BHO (644). The browser instances are connected to merchant servers (644). The merchant servers are connected to payment processors (642). The payment processors are connected to partner servers (640). The partner servers are connected to information servers (650). The information servers include a registration server (652), a profile server (654), a context server (656), a script/mappings server (655), and a transaction error server (659). The information servers are connected to a form filing library (670) which includes web spider monitors (676) and field identification tools (676). The form filing library is connected to a script & mapping database (672). The form filing library is also connected to a set of information databases (660) which includes a reader database (662), a profile database (664), and a token database (666).

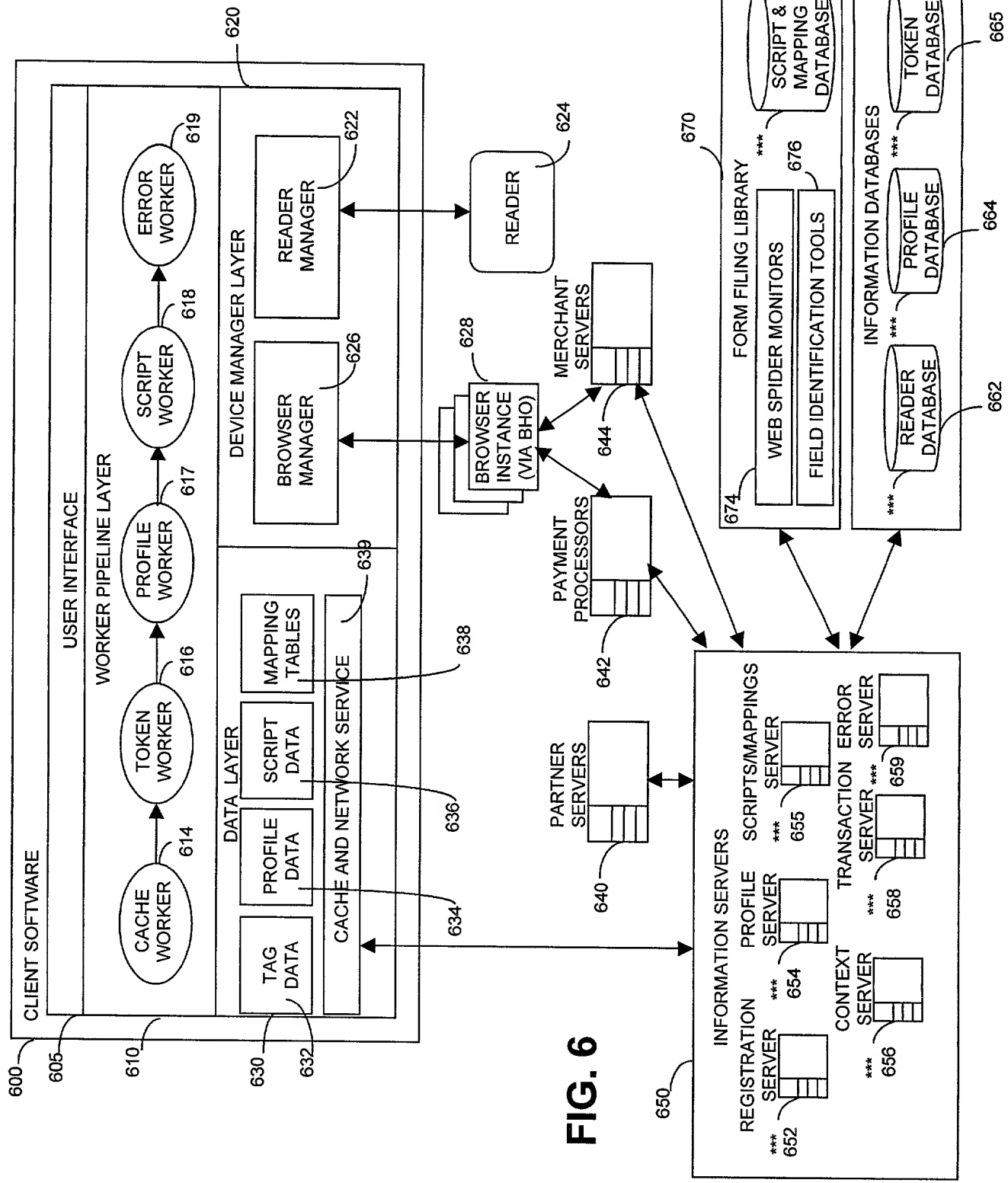


FIG. 6

FIG. 7 is a block diagram of a system architecture for a Presto Technologies Middle Tier. The system includes a Presto Technologies Middle Tier (800) which contains Presto Databases (802) and PrestoTag RDBMS (804A). The Presto Databases (802) include Profile & Context RDBMS (804C) and Reader RDBMS (804B). The PrestoTag RDBMS (804A) is connected to the Reader RDBMS (804B). The Presto Technologies Middle Tier (800) is connected to a Presto Portal & Personal Admin (822) and a Home POS and Access (820). The Home POS and Access (820) includes PrestoPad (810) and PrestoPad (811). The Presto Technologies Middle Tier (800) is also connected to a Partner Admin & Analysis (830), Distributed Caching (828), and Payment Processing (816). The Presto Technologies Middle Tier (800) is connected to Retail Systems (824) which include Cash Register, Kiosk, and Gas Pump. The Presto Technologies Middle Tier (800) is connected to a Presto Portal & Personal Admin (822) and a Home POS and Access (820). The Presto Technologies Middle Tier (800) is connected to a Partner Admin & Analysis (830), Distributed Caching (828), and Payment Processing (816). The Presto Technologies Middle Tier (800) is connected to Retail Systems (824) which include Cash Register, Kiosk, and Gas Pump.

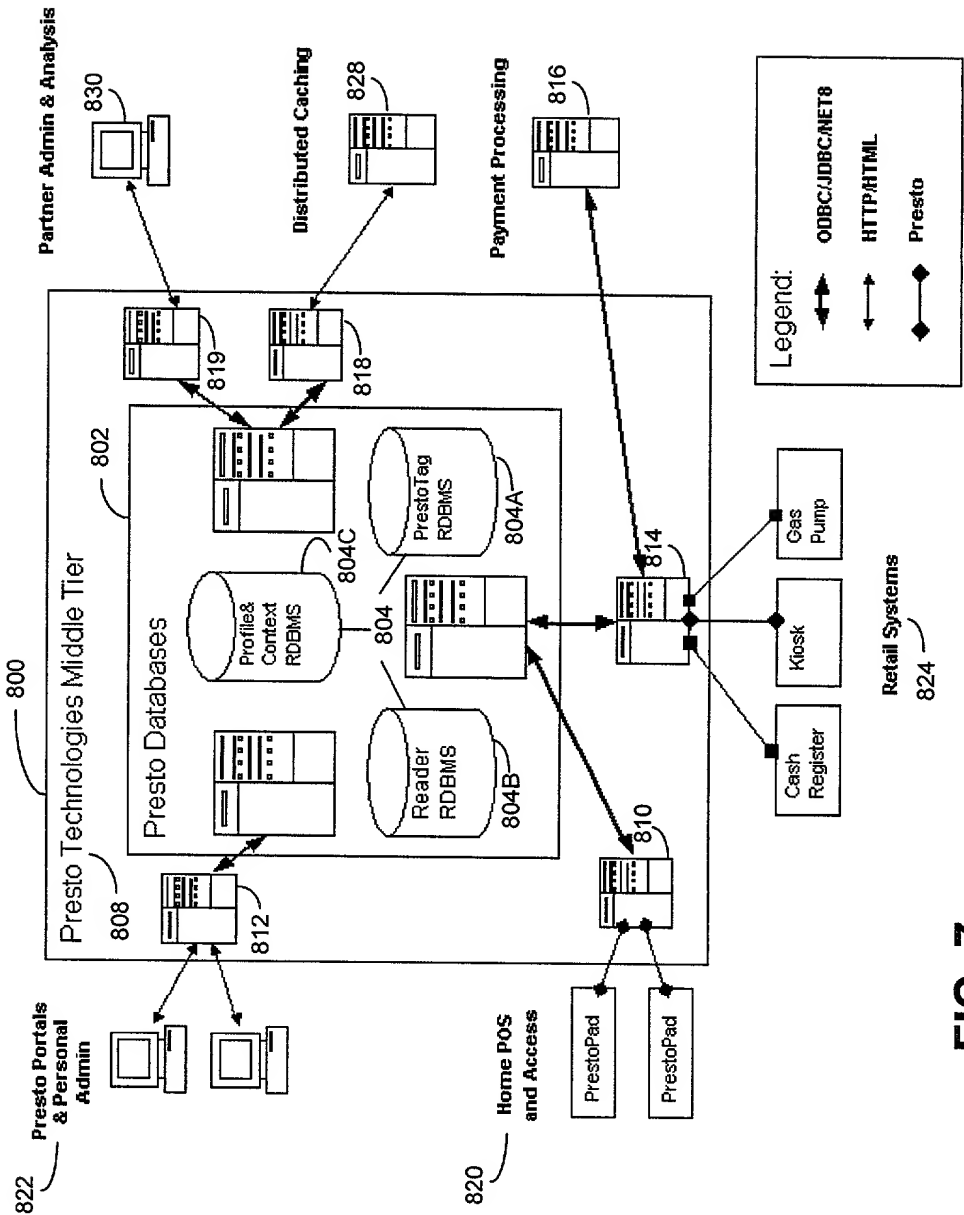


FIG. 7

FIG. 8 is a block diagram of a system architecture for a retail environment. The system includes a user 905, a PC 910, a POS 920, a Retail Kiosk 930, and Information Servers 950. The user 905 is shown interacting with a device 905B and a card 905A. The PC 910 is connected to a PC Client Software 914. The POS 920 is connected to a POS Client Software 924. The Retail Kiosk 930 is connected to a Kiosk Client Software 934. All client software components (914, 924, 934) are connected to the Information Servers 950, which are also connected to Information Databases 952.

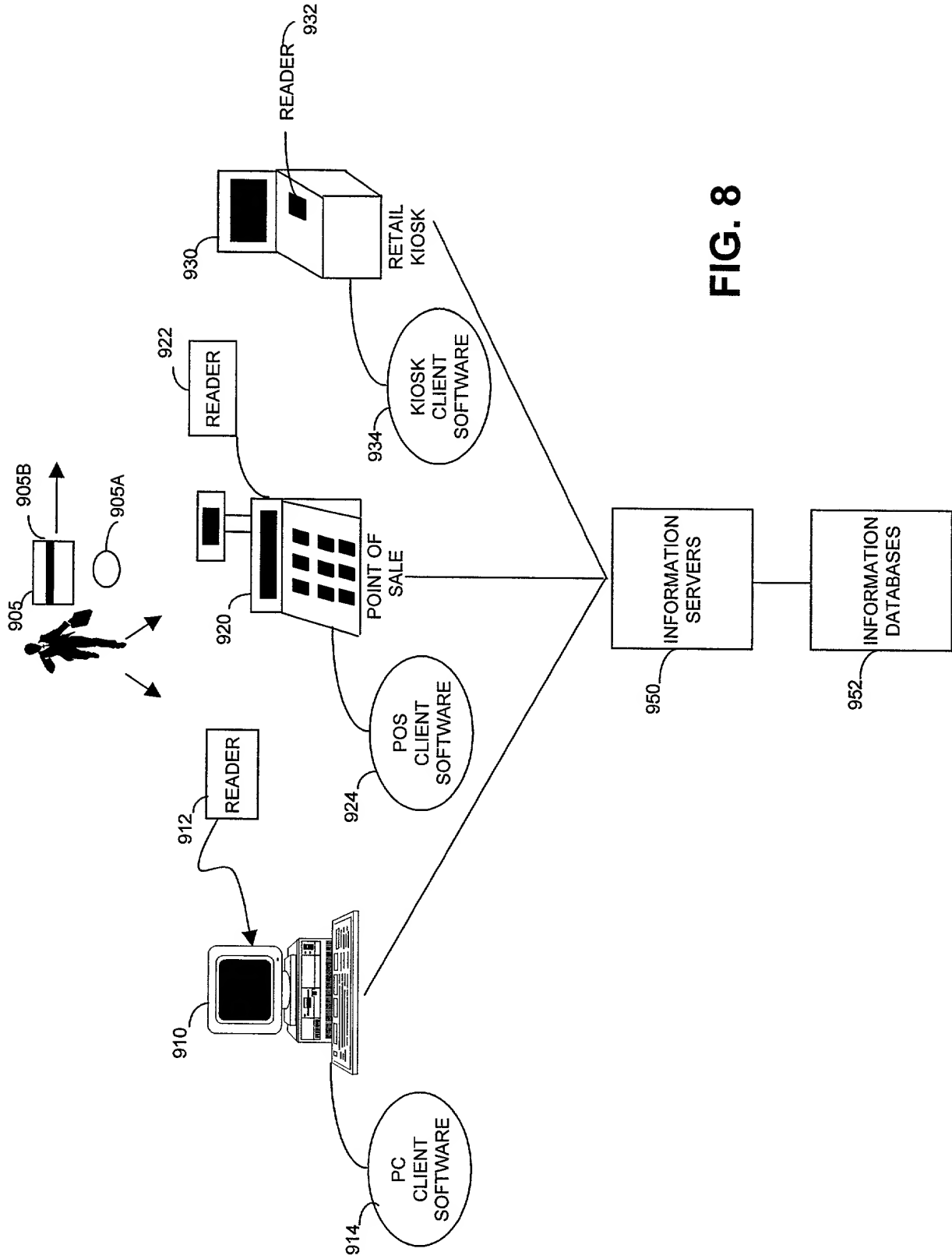


FIG. 8